

ABSTRACT OF THE DISCLOSURE:

5 A method simultaneously detects and captures double-stranded DNA sequence. The method includes providing a sample. The next step is adding a forward primer for the double-stranded DNA sequence and a reverse primer for the double-stranded DNA sequence; either the forward primer or the reverse primer have a capture agent, the other has a detection agent. The next step is replicating the double-stranded DNA sequence. The next step is binding the capture agent to a capture medium. The next step is rinsing the sample. The next step is detecting the detection agent. The method also can be applied to double-stranded DNA that has been reverse-transcribed from single-stranded RNA.

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